

## April Meetings

### Dates & Times:

Matinee, 2:30 p.m., Wednesday April 11

Evenings, 8:00 p.m., Wednesday and Thursday, April 11 and 12

### Place:

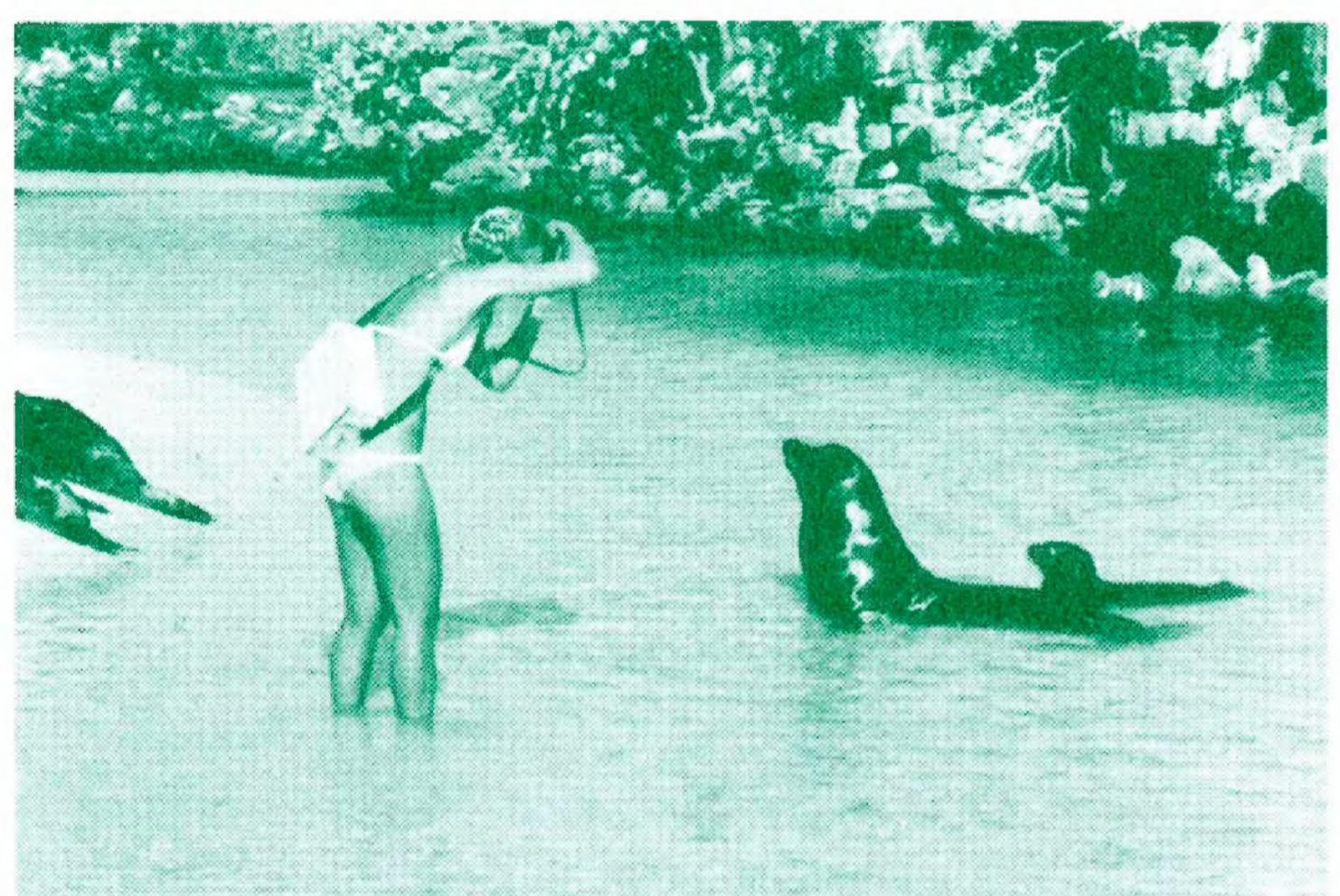
May Treat Morrison Auditorium

### Speaker:

Tui De Roy Moore

### Subject:

"Volcanoes of the Sea"



With much excitement the Academy warmly welcomes Galapagos islander Tui De Roy Moore, who will surely turn our April meetings into fascinating accounts of her experiences living amidst the splendor of the "enchanted isles". The naturalist/explorer, now in her mid-twenties, was born in Belgium but at the age of two was taken by her parents to the Galapagos and is now a lifetime resident.

Tui's intelligent awareness of her unique surroundings coupled with a fine talent for photography (her 35 mm color slides are breathtaking) and writing, result in frequent contributions to Audubon Magazine, Pacific Discovery and National Geographic Magazine.

Tui is a delightful and dynamic speaker whose special slide-illustrated presentation on "Volcanoes of the Sea" should not be missed. As usual, there will be three presentations of the monthly members' meetings. Please show your membership card at

the main entrance to Cowell Hall for admission to the Academy. For the afternoon meeting, you will be asked to present your card once more at the entrance to the auditorium.

## Special Exhibits

**Ice Age Art**, a major exhibition of the art and symbol of man's earliest ancestor, Cro-Magnon man, continues to draw crowds through Lovell White Hall. While hundreds of examples of Cro-Magnon man's art and symbol exist, never before has an exhibition been mounted to bring the great variety of material together. Sculptures and artifacts, photomurals of cave paintings, carvings and engravings make up the more than 200 works on view. The show sheds a new light on the culture and capacity of these earliest Homo sapiens, who appeared approximately 35,000 years ago living as hunter/gatherers during the Upper Paleolithic period of the last Ice Age in Europe.

Another exhibit on prehistoric art, **The Hand of Man** in Cowell Hall, features the work of New York artist Douglas Mazonowicz. Using the silkscreen technique, he has made accurate renderings of the art found in the caves of France, Spain, Central Sahara and North America. Approximately 30 of his prints are on view through the summer.

**Galapagos Islands: Intimate Views** is now on view in Hohfeld II. This exhibit of Nancy Dunn's outstanding color photographs gives us an intimate look at the wildlife on Darwin's islands.

**Bali**, a collection of works by S.F. photographer Frank Gundry, offers a unique look at life on two Indonesian islands. Featured and compared are the people of Bali and the Torajanese natives of Sulawesi. The islanders are shown in scenes of daily activities with special emphasis on funeral ceremonies.

**Farallon Islands**, Tupper Ansel Blake's color photographic exhibit depicting the wildlife refuge, continues through April 30 in Hohfeld I.

## Morrison Planetarium

The Morrison Planetarium continues to present **Magic Sky**, a sky show designed especially for pre-school through first grade children. The show provides a basic introduction to the "magic" of the planetarium environment and tells the story of the day-night cycle of the sky. **Magic Sky** is presented at 11 a.m. on the first Monday of each month for the remainder of the school year. Admission is 50¢ per person including adults. School groups must make reservations in advance by calling (415) 221-5100, ext. 271. Individual families are also welcome.

Through April 22, you can see **Planetary Odyssey**, the planetarium's daily sky show that takes you on a flight through our solar system. Beginning April 27, the new daily sky show will be **In Search of Ancient Astronomers**. How did the astronomer-priests of King Tut's time interpret the sky? Was Stonehenge a sophisticated astronomical computer? It is possible that the ancients knew far more astronomy than we realize? Find out about the ancients and their monuments including Egyptian pyramids, the Mayan Caracol in Yucatan and more in an exciting world-wide journey **In Search of Ancient Astronomers**.

The Morrison Planetarium's daily sky shows can be seen each Monday through Friday at 2 p.m. or on weekends at 12:30, 2 and 3:30 p.m. Evening shows are each Wednesday and Thursday at 7:30.

## Laserium

Catch "The Best of Laserium," the cosmic laser light concert where vivid color images are set dancing to music against a background of stars, each weekend at the Morrison Planetarium. This popular show can be seen at 7:30, 9 or 10:30 p.m. on Fridays; at 5, 7:30, 9 or 10:30 p.m. on Saturdays; and at 5, 7:30 or 9 p.m. on Sundays. Admission to all performances is \$3.25 and advance tickets can be purchased through BASS outlets. Remaining tickets go on sale at the planetarium box-office one-half hour before show time. Members are reminded that this is not a regular planetarium attraction nor are your membership passes usable for this attraction. Call 752-4264 for more information on "The Best of Laserium".

**Special Feature This Month:** Thanks to the special arrangements made by the San Francisco Cherry Blossom Festival Committee a group of musicians from Japan will perform in a unique program here in addition to the scheduled programs of early harp music. East meets West this month in three delightful programs!

**Saturday, April 14 — 2 p.m.: Early Harp Music Through the Ages**  
Natalie Cox will present the delicate music of Irish and Other European early harp traditions from the thirteenth to the eighteenth centuries. Her program will beautifully compliment the demonstration of harp building that will be presented on April 28.

**Saturday, April 21 — 2 p.m.: The Traditional Classical Music of Japan**  
Musicians from the classical Ueda School of Shakuhachi and the Ikuta School of Koto will present a unique flute and zither program which is highly recommended.

**Saturday, April 28 — 2 p.m.: Ancient and Neo Celtic Harps**  
Christopher and Teresa Caswell of Caswell Harps will demonstrate the methods they use to build three different styles of small harps. This unusual program will be of special interest to craftsmen and musicians as well as early history buffs!

**And Now There Are Two . . .** female Pacific White-Sided Dolphins, that is! Steinhart Aquarium and of course its existing dolphin Amphitrite, happily welcomed new tank-mate, Thetis, who arrived from Los Angeles via Flying Tiger Airlines. Thetis was collected off San Diego's coast by the staff of Sea World, using Steinhart Aquarium's permit. It is estimated that she is 3 to 6 years old, 7½ feet in length and weighs 250 lbs. — a strong, healthy mammal. As you watch her, you may notice healed scars along her fluke which attest to a probable encounter with a shark.

Thetis was named by Loring Cox, winner of the S.F. Examiner's "Name the Dolphin" contest. The winner and his class, Grade 3 of San Francisco's Redding School, will receive a book on marine mammals and a behind-the-scenes tour of Steinhart Aquarium. In Greek mythology, Thetis was the sister of Amphitrite, mother of Achilles and Poseidon's favorite, although he married Amphitrite.

Watch Thetis frolic with Amphitrite and the three harbor seals now on display at the Aquarium. They are fed every two hours beginning at 10:30 a.m. except on Thursday, cleaning day.

**It's Science Fair Time Again . . .** For the 26th consecutive year, the Annual Bay Area Science Fair can be seen in Simson African and North American Halls beginning March 31 and running through April 4. Budding young scientists from all over the Bay Area have been selected at a local level to represent their school or group with some very interesting science projects covering subjects from air pollution to the most durable kinds of car wax. The fair is open during regular museum hours, from 10 to 5.



Waved Albatrosses of Galapagos Islands

#### GALAPAGOS ISLAND SYMPOSIUM

April 6 & 7

The Academy has been selected by the Charles Darwin Foundation for the Galapagos to host an international meeting concerned with the status of knowledge about and conservation priorities of the enchanted isles.

A public symposium will be held on April 6th and 7th in the Morrison Audi-

torium and will include illustrated lectures by international experts about their research. Topics such as Communication Among Darwins Finches, Polychromatism Among Lava Gulls, Competition Between Introduced and Endemic Plants and Animals, Studies on Marine Iguanas, Conservation Priorities and the Sex-Related Foraging Behavior of Galapagos Hogfishes will be presented. A particularly timely and exciting lecture will include the showing of National Geographic films of submarine thermal vents taken earlier this year from the deep-submersible "Alvin".

This free symposium will be open to the public and begin at 10:30 each day. The April members' meetings and a color photographic exhibition in Hohfeld II gallery offer more on the Galapagos.

#### The Space Program: Special Evening Lecture

Saturday, April 28  
8:00 p.m., Morrison Auditorium

Mr. Max Hunter, formerly deputy vice-president and program manager for the space telescope designed by Lockheed for NASA will speak on this exciting topic. The space telescope, scheduled to be in place by late 1983, is an instrument capable of seeing at least 350 times the volume of space currently accessible to ground facilities. It will scan the heavens in all wave lengths from ultraviolet through visible and infrared. This special slide-lecture presentation will preview a new realm of scientific inquiry which can now only be vaguely appreciated. No advance reservations required. \$1 donation at the door.

#### Berkeley Botanical Garden

Wednesday, May 2  
9:30 a.m.-1:00 p.m.

May Flowers! Members are invited to visit the half-century old Strawberry Canyon Botanical Garden of the University of California in the Berkeley hills. Garden docents will conduct the tour through this plant-lover's haven. The chartered bus will leave from the Academy's Cowell Hall entrance at 9:30 a.m. and will return at about 1:00 p.m. \$6 per person, members only; advanced reservations required.

#### Education and Travel Notes

**Indian Lands of the Southwest:  
A Symposium**

Saturday, May 5  
10:00 a.m.-4:00 p.m.

This one-day symposium is designed to provide a background in geology and anthropology for those interested in Northern Arizona and especially the participants on the Southwest Pueblo Trip. Featured speakers are Dr. Charles Chesterman on Arizona geology, Dr. Dorothy Washburn on the archeology of the region and Donna Ottosen on the arts and crafts of Southwest Indians. Demonstrations of Hopi and Navajo crafts are slated for the afternoon. Admission is \$10 for members and \$15 for non-members. Advance reservations are required.

**Sea of Cortez Expedition**

May 5-12

Limited space is still available aboard the **Baja Explorador** for a unique experience in the warm Gulf of California sunshine. Daily activities on the six-day cruise vary between fishing, diving (both skin and scuba), swimming, hiking, exploring, photography or just relaxing. This rich enchanting sea and its islands a variety of plants, birds, intertidal life, marine animals and geology. Cost is \$695 from San Diego.

**Point Reyes**

Saturday, May 12  
8:00 a.m.-5:00 p.m.

Point Reyes and the San Andreas fault are areas of great geologic interest. On this one-day bus trip, we will compare the formations on each side of the fault while walking the "Earthquake Trail". Dr. Peter Rodda, Chairman of the Academy's Geology Department, will be the leader. Bring your own lunch for our noon time stop at the Point Reyes National Seashore Headquarters. Refreshments will be provided. Advance reservations required. \$10, members only.

**The Visible Universe**

May 15-June 5 (four Tuesdays)  
7:30-9:30 p.m.

Join us as we view the constellations and planets of the various seasons as seen from San Francisco and other latitudes on earth. During the course we will also learn how to use a star finder, to identify the seasonal planets and stars. The yearly motions of the moon, tides, the sun and the planets will

complete our view of the visible universe. Taught by Michael Bennett, lecturer for the Morrison Planetarium. \$15 for individuals, \$25 for families, non-members add \$5.

**Ecuador and Galapagos Islands**

June 16-July 7

Fifteen Academy members will be exploring this unique region of South America and the Pacific on a tour led by naturalist Bob Nanson. Ocean travel in the Galapagos will be aboard the yacht **Isabela**. Additional trip highlights include exploration of the highest peak in Ecuador, visits to Indian markets, and several days aboard the "flotel" **Orellana** in the Amazon basin, with canoe trips to learn about Indian cultures and rain forest ecology. Cost: \$1,790 plus air fares. For additional information call Nature Expeditions International at (415) 328-6572.

**Bristlecone Pines**

June 29-July 2

An excursion to the Ancient Bristlecone Pine Forest on the eastern side of the Sierra Nevada is the highlight of this four-day bus trip led by Charles Chesterman. Lodging will be at Mammoth Lakes, and daily side trips include Mono Lake, the ghost town of Bodie and a travertine mine. The unique geology and structure of the Mono Basin will be a major theme of the tour. The cost is \$106 per person double occupancy; \$130 single occupancy; and will include three nights lodging, breakfasts, lunches and transportation. Advance reservations are required. Members only.

**Southwest Pueblo Country II**

June 30-July 8

Our second trip in the Southwest Indian Cultures Series will concentrate on the Indians of Northern Arizona. Dr. Dorothy Washburn will lead the group on a nine-day loop trip from Phoenix to include the Hopi Mesas, the annual Hopi Crafts Show, a jeep tour of Canyon de Chelly, Indian Pow-wow dances, a boat trip on Lake Powell, the Grand Canyon, and many archeological sites. Cost: \$675. For information call Gulliver's Travel (415) 346-4400. Trip participants will be given free admission to the one-day symposium on the Indian Lands of the Southwest presented Saturday, May 5 at the Academy (see announcement in this newsletter).

**High Altitude Ecology:  
Mount Rainier, Washington**

August 4-11

Mount Rainier National Park will be the setting for this week long field study under the direction of Dr. David Kavanaugh, Academy Entomologist. The focus of the trip is the ecology of the alpine zone including the fauna of permanent snowfields. Adequate physical fitness will be required in order to hike at these high elevations and participate in a class on basic snowclimbing. Participation in on-going entomological research conducted by the leader will be an added feature. A climb to the summit of Mt. Rainier will conclude this active program. Cost is \$325 per person. Advance reservations required.

**September 5-October 2  
East African Safari**

Tanzania, the Seychelles Islands in the Indian Ocean and Kenya are the prime destinations for this tour led by Academy naturalist Bob Drewes. This is the first time in several years that the Academy has been able to offer this unique trip to both Tanzania and Kenya. Nine National Parks are included in the itinerary. Wildlife photographers will have wonderful opportunities to capture African species on film. Olduvai Gorge, site where *Australopithecus* and many artifacts of early man were uncovered, will be a special attraction on this 28-day adventure. Cost including air fare from San Francisco, is \$3,885.

**A Reminder . . .** for those interested in the April 20-22 Amphibian and Reptile Conference, co-sponsored by the University of California Extension, Berkeley and held in Morrison Auditorium . . . This weekend program for the general public features fifteen experts speaking on selected topics under the heading "Amphibian and Reptiles of the World — Facts and Fantasies". Contact U.C., Berkeley Extension at 642-1061 for more information.

**For more information or to make a reservation on any of the above classes or trips, please call the Education/Travel Office at the Academy, 221-5100, ext. 211 or 215 unless otherwise specified.**

# California Academy of Sciences Newsletter April, 1979

## New Members of the Academy

Continued from last month

Mrs. Donna Liebman  
 Mrs. Nancy A. Linder &  
 Mr. Michael R. Bryant  
 Mrs. Janet C. Livermore  
 Mr. Aaron Mark Low  
 Dr. & Mrs. Donald B. Lucas  
 Mr. Sterling Luke  
 Dr. & Mrs. Lawrence Lurie  
 Mr. W. F. Luton  
 Mrs. Pam Lynn  
 Dr. Arvid Magnuson  
 Mr. Orville T. Magoon  
 Mr. John A. Maher II  
 Mr. Michael Maiman  
 Mr. & Mrs. Peter Mandell  
 Dr. Robert Martin  
 Mr. Robert J. Merlo  
 Dr. Malcolm H. Merrill  
 Mrs. Clarence Miller  
 Dr. & Mrs. Shelby W. Miller  
 Mr. Kenneth T. Miyasaki  
 Mrs. Jean T. Moore  
 Miss Luzmila Moore  
 Mr. & Mrs. Frederick A. Morgan  
 Dr. & Mrs. Mark Moss  
 Mr. & Mrs. Robert G. Murray  
 Mrs. Marjorie E. Myers  
 Mrs. Jean McDowell  
 Mrs. Gladys E. McFarland  
 Mr. William M. McGuire  
 Ms. Rita McHugh  
 Mr. & Mrs. Donald McKean  
 Dr. K. R. McKenzie  
 Miss Sally A. McKibben  
 Dr. & Mrs. B. H. McMurdo  
 Mr. Stephen L. McMurtry  
 Miss Thelma McWhirter  
 Miss Margaret Nesslage  
 Ms. Alexandra L. Nethercutt  
 Mr. Thomas Newcomb  
 Mr. & Mrs. Raymond Nicholas  
 Ms. Rachel H. Norman  
 Mrs. Mary Ellen Oberhaus  
 Dr. & Mrs. L. D. O'Brien  
 Mr. Robert W. O'Donnell  
 Mrs. Alfred P. Otto, Jr.  
 Dr. & Mrs. Edwin Owyang  
 Mr. & Mrs. Norman Owyang  
 Dr. & Mrs. Walter Owyang  
 Mr. Tyrone Parker  
 Mr. Bruce W. Parkinson  
 Dr. S. Walton Parry  
 Mrs. William Parson  
 Mr. Kirk P. Patterson  
 Miss Georgella Perry  
 Mrs. M. Perstein  
 Mr. Nguyen K. Phan  
 Mr. William Pickford  
 Mr. Duane Post  
 Mr. & Mrs. L. A. Post  
 Dr. Mark J. Powel  
 Mrs. Russell W. Presting  
 Miss Barbara Preston  
 Mr. Kuo-Chiew Quan  
 Mr. Cecil B. Quirino  
 Dr. Vincent D. Quita  
 Dr. & Mrs. Collin P. Quock  
 Ms. Caroline Ramberg  
 Mr. David G. Rhoades  
 Mr. David Rich  
 Mr. Michael S. Rich  
 Mrs. James A. Richardson  
 Mr. Russell Richeda  
 Miss Catherine Rieser  
 Mr. & Mrs. E. W. Riley, Jr.  
 Mr. Keith Ritthaler  
 Mr. Julio A. Rivera  
 Mr. & Mrs. Francis F. Rivinus  
 Mr. & Mrs. William D. Roache  
 Miss Marianne Robison  
 Mrs. Leona L. Robinson  
 Ms. Nancy D. Robinson  
 Dr. Reynaldo Rodriguez  
 Dr. Robert & Ms. Rayna Rodvien  
 Dr. Howard Rosenberg  
 Mrs. Cleda Ross  
 Dr. Martin L. Rossman  
 Dr. Richard L. Roth  
 Mrs. S. F. Routerty  
 Mr. Lee Ruggles  
 Miss Darlene Russ-Eft

### Contributing Members

Dr. Edwin F. Alston  
 Mr. & Mrs. Fred Bajurin  
 Mr. Phil Benedetti  
 Mr. David Blacker  
 Dr. Charles E. Blair  
 Miss Coralie Bouchard  
 Mr. & Mrs. Dyke Brown  
 Dr. Chris Steven Burkhardt  
 Ms. N. C. Carnochan  
 Mr. James A. Carter  
 Dr. Owen C. Dickson  
 Dr. M. Catherine Dobbins  
 Dr. James S. Dyer  
 Mr. Carl Eberly  
 Mr. & Mrs. Peter Edgelow

To be continued next month

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